

Application No.: 10/062,179
Applicant: JENS U. QUISTGAARD
1edical Diagnostic Ultrasound Instrument with ECG
Authorization Mechanism and Methods of Use Sheet 1 of 13

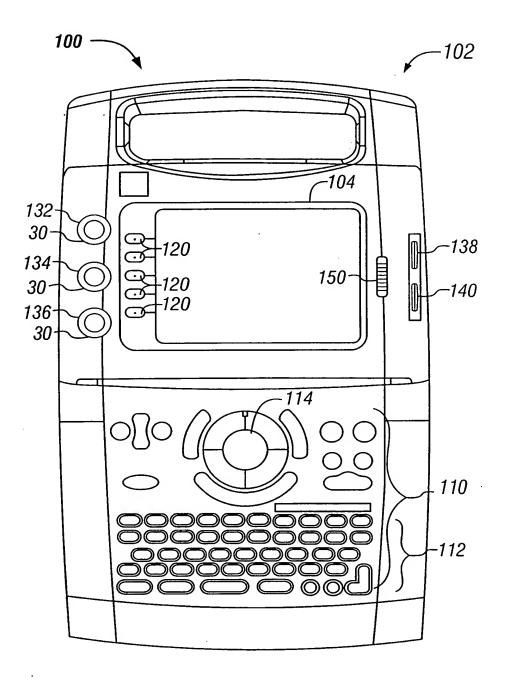
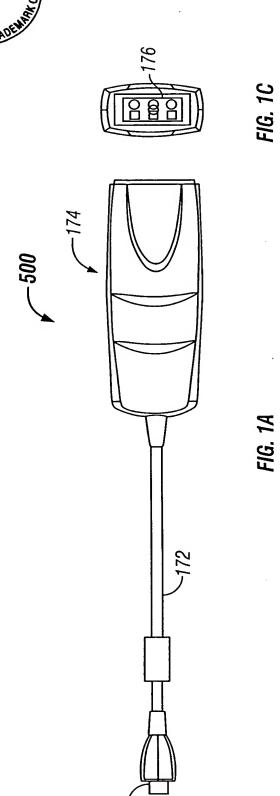
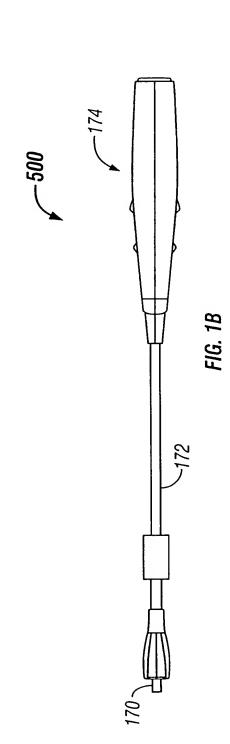


FIG. 1

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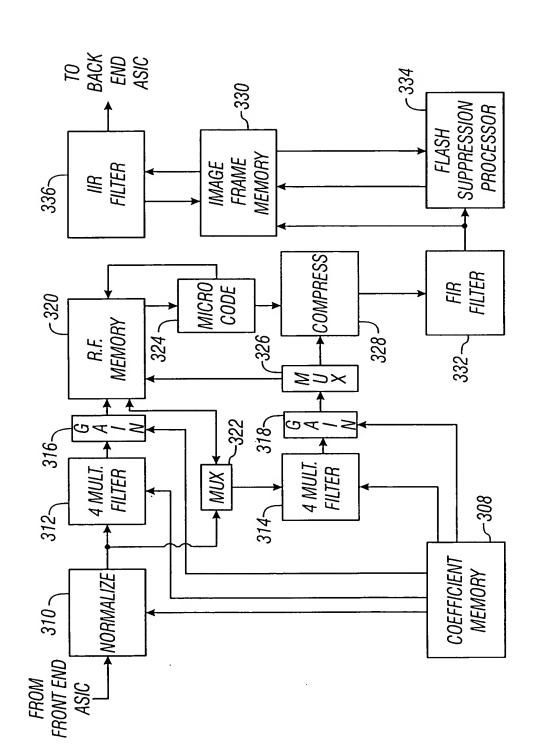
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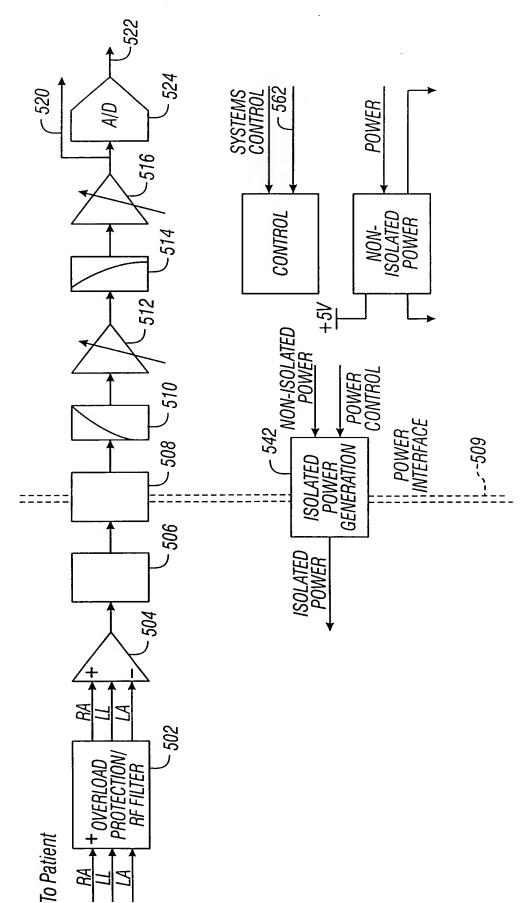


FIG. 5



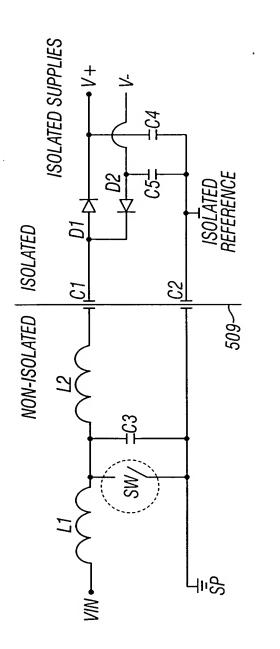


FIG. 6



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Medical Diagnostic Ultrasound Instrument with ECG module.
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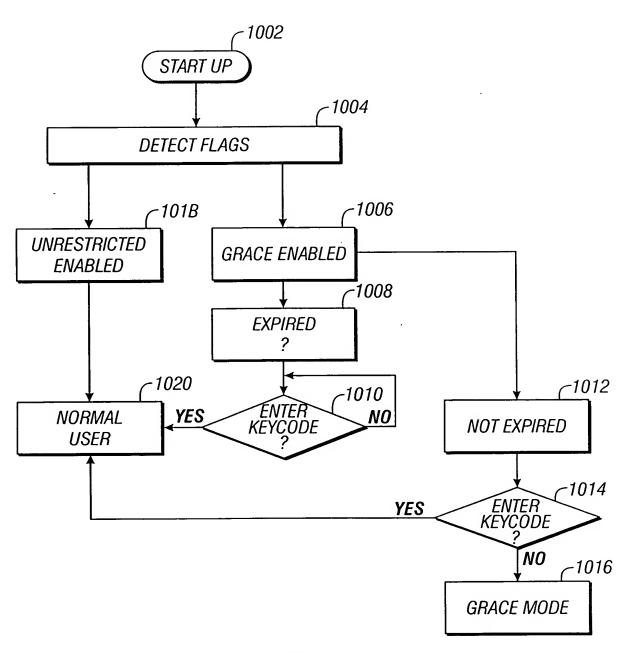
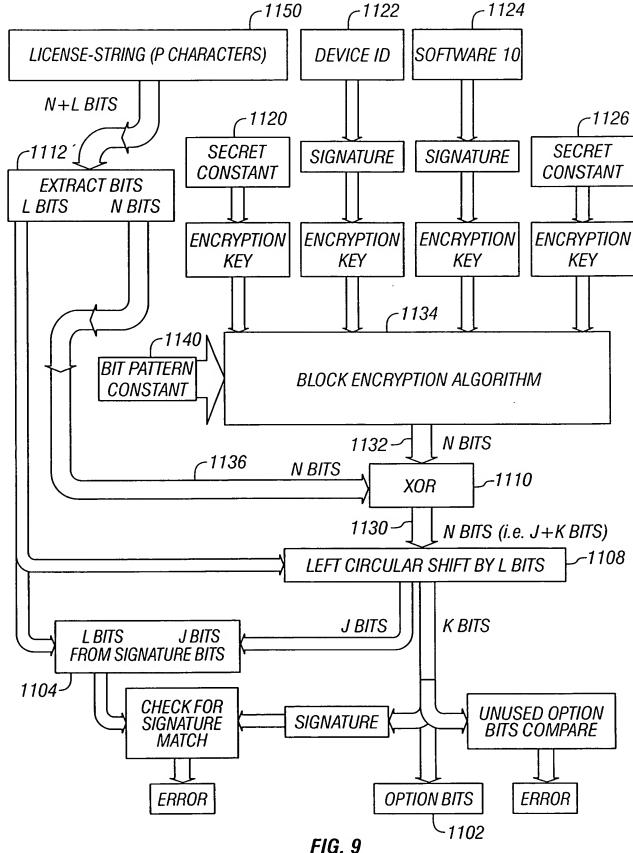


FIG. 7

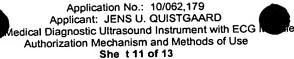


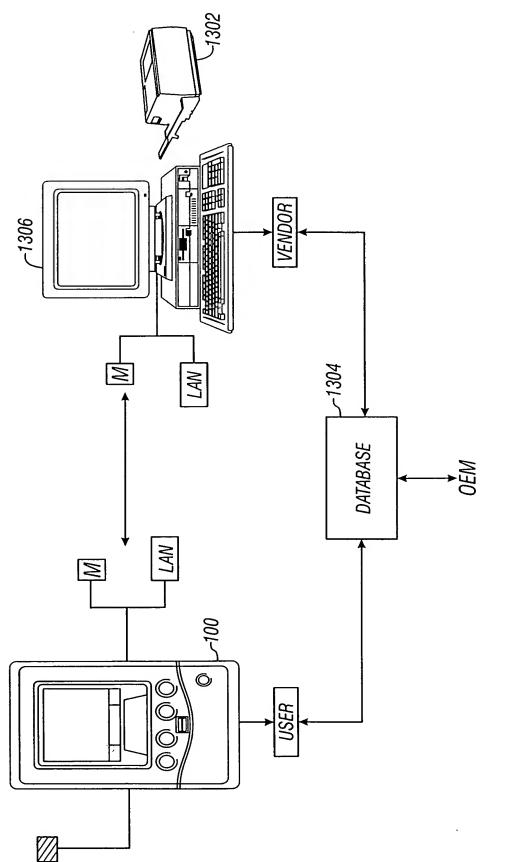
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Medical Diagnostic Ultrasound Instrument with ECG

e.

DOPPLER TRACING STEPS START SET STARTING COLUMN DOWNSAMPLE NEXT IMAGE COLUMN PERFORM TEMPORAL SMOOTHING STEP AVERAGING IN A FRACTION OF THE LAST COLUMN WITH THE CURRENT COLUMN DETERMINE THE ABSOLUTE VALUE DEVIATION (AVD) OF THE COLUMN APPLY ONE OF A SERIES OF PREDETERMINED SMOOTHING FILTERS THE FILTERWIDTH IS DERIVED FROM AVD DETERMINE THE MEAN POWER POINT FOR THE COLUMN FIND THE MAXIMUM VALUE BEFORE THE MEAN OF EACH ESTABLISH A PEAK THRESHOLD EMPLOY PEAK FINDING ALGORITHM RESCALE PEAK AND MEAN VALUES TO ALLIGN WITH **DISPLAY DIMENSIONS** DONE NO WITH **COLUMNS** YES SMOOTH PEAK AND MEAN TRACES

DONE

FIG. 11



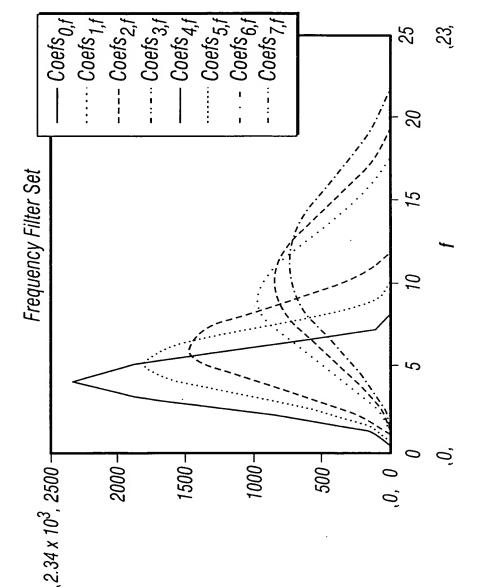


FIG. 12